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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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25 gaaaaanttt tccggggggc ccaccggga agggntnccg gggaaggg 168

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30 <212> DNA
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 cccacattc cattttaat atatactgtg cttacaaat attataatat gttttaaat 180

40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 tttgaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

45 agtctacct aattgatga taaaattaca tggaagggat tcttgtggc atgaggacct 420

accaagatgg tcaacaga

438

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc cccttttcc 180
 aattcccaa accaatttc aaaaggnaaa ccaacnttc ccaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

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attccttggg cctaggaacc ctatcaccc tcatccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttagcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180

45 gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

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 15 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaatgg tctcattca ttggctataa ctcagttaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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 40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180

 acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240

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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc 120

45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240
cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
5 tgggcgccag caggggcggc cttcgggccca aaccgaacct caggtcanac ttccaagaaa 360
agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
20 ccaaaaaaaaa aatttttaaa aaaaattttt ngcccccggg ggcattgggg g 231

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30 ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc ccactcctg 180

agctaatttc tgctctgctc ctctgtgac atgtggcagc gtgggaaata gccactgtcc 240

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 tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
 cantnnnctg gggncccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgntagatga nnnngtctc nccctgngg ctnacaaatt ccancacnt tggtggcngc 600
 agcctntaag ancactnttt ttgggttgcg cntttggatg aattacnaat agnntgtttt 660
 35 gttncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720
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<223> n is a, c, g, or t

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caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

10 <210> 54

<211> 515

<212> DNA

<213> Human

15 <400> 54

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agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120

20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tcccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagattac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

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<211> 176

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 cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

 40 agcctgcctt cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

 <210> 56
 <211> 317
 45 <212> DNA
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<220>
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 <223> n is a, c, g, or t

 <400> 56
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 10 atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg ttagaggta caattgcctt tttatggta gagaaaggtc ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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 <210> 57
 <211> 209
 <212> DNA
 25 <213> Human

 <400> 57
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 30 ctggactgga cactgtatac ccacatgcaa gatgaagttg gcccttaca tcctatacgc 120
 aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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 <210> 58
 <211> 262
 <212> DNA
 40 <213> Human

 <400> 58
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 45 acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180
 agttgcttgg cccaaggaag gagggttgta tggtgatca cactggtccg cctgggtgac 240
 5 agagcgagac tccatctcta at 262

 <210> 59
 <211> 430
 10 <212> DNA
 <213> Human

 <400> 59
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 15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120
 cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180
 20 aaccggcccg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240
 tctgggatgg gaatatgagt ttatatacat ttcatcttct tttgggcaa aggcccggtt 300
 aagtattccc ccccgggggg cctttacaaa aaggcggtt taaaagctt ttgggcccc 360
 25 ctagggaatt gtttaacac ctaaaaacc ctgcttcct taaagggcg ttcttaatt 420
 tgggggcggc 430
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 atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
 40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
 tgattccgaa tcaccacag acagctcgat caccatactg atcaccaac atatatact 240
 45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgat 300

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<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagttga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 tttgttaaaa ttgatattt gatataaaa acttcttttg ccagtgttg tggcacacgc 360

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agtctacaga gcaagttcca ggctagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac 540

caaacagac taaaccaaac caaacagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttcctc ttctttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccca 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

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<400> 64

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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120

tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 <212> DNA
 5 <213> Human

 <400> 65
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 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
 <212> DNA
 <213> Human

 <400> 66
 25 agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgtt 60
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 atagctagta aactccccct gt 142
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 <211> 286
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 35 <213> Human

 <400> 67
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 40 aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttctcttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcatt tttttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 <400> 69
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 ttttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

 <210> 70
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 45 <212> DNA
 <213> Human

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 5 <222> (26)..(26)
 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

<210> 71
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 10 <223> n is a, c, g, or t

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 15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120

 cacag 125

 20 <210> 72
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 <212> DNA
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 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120
 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360
 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 aatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
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 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<222> (31)..(32)

<223> n is a, c, g, or t

<220>

10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

20 cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

35

tgagatgaca tgaaataatg aaacgaaatt gaaat 155

<210> 76

40 <211> 367

<212> DNA

<213> Human

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 cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180
 45 tatcggtacg aggaatggat gttcgatttc gtagaatagc cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
 taccattatt gtcactttat gtttgaacc cctttaccc ttcttaaag gaaaaaaagg 360
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 35 ccctgatggt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

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 ggaaaaanaa tccttttaa anggaantcc aagggaagga ncctgnncaa nactcccn 180
 30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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 35 <211> 443
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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggatatt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
 taggaaagca ttctttttt tt 442

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 agggaggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120
 15 aggaaggaag gaagg 135

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 aacttcctca gaaggacaag agacaaagaa gtgggggagg ccttcctatc catagctgag 180
 35 agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
 aaccccgct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300
 40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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 45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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attacctctt tttgtacca ctcttaaagg ccaggaacat atttgagaa gcctagtgt 180

20 atgtaacagt gtggggttc a 201

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25 <212> DNA

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc 300

gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgtaccgtct actctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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 5 <213> Human

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 acagccaaac cgggtccgcc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacgggc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gttctattcc ttacagctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgtccagag ccgagtaaatt cgaagtttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctcccg gacgcccctt ttaaccactt ctctctatct 480
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 aattaaggna aggnntaaaa aatttaacca angggggggtt taaagggnntt tttttttta 180

 aaaaaaaagg ttaaanccccc cccctttttt ttgggttggg gtgggaaaat tttgggaanc 240
 45 cttaaccccc ggggttttgg gtttttttgg ccaaaacccc ccggaaaaaa atttaaaaaa 300

ggaccggttt ccattttaat gggatttggg aa

332

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cggtggtaac tattaaaaca taagttaat cggatttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185

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aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag 240
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40 atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg ccnngggntt 180

naaannggn nctngggggg ggaaantttt ggcccccccc cgggggnttt ncctnaaaaa 240

aaancnttt naaanacngn nanaatttn ccnnncggg gagngngga nntttttt 300

45 tnaannagcc nttttgna naaaaanntt ggncccccc ctattccnng gnttttngga 360

ccntnnanc ntgggnnttt ttagnccctn aaaaaaangc naatnttaag gtaaaaattn 420

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
30 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgcn 240
canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300
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atgagatgat gaaataaaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

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gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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 aaaaatagat aatggtaac caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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